

SMPTE OVERVIEW

Ultra High Definition Television — Overview for the SMPTE ST 2036 Document Suite



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Document Overview –

The SMPTE ST 2036 Ultra High Definition Television suite of documents is in multiple parts:

SMPTE ST 2036-1, Ultra High Definition Television — Image Parameter Values for Program Production

Defines a family of progressive image sample structures for the representation of stationary or moving two-dimensional images sampled temporally at a constant frame rate and having an image format (sample structure) of 3840 x 2160 (UHDTV1) or 7680 x 4320 (UHDTV2) which has a hierarchical relationship with 1920 x 1080 and an aspect ratio of 16:9.

SMPTE ST 2036-2, Ultra High Definition Television — Audio Characteristics and Audio Channel Mapping for Program Production

Specifies the characteristics of digital audio for UHDTV program production and distribution. This document also defines the mapping and labeling of 22.2 multichannel audio for UHDTV program production.

SMPTE ST 2036-3, Ultra High Definition Television — Mapping into Single-link or Multi-link 10 Gb/s Serial Signal/Data Interface

Defines UHDTV1 and UHDTV2 image mapping into a Single-link or a Multi-link 10 Gb/s Serial Signal/Data Interface (10G-SDI) Mode D defined in SMPTE ST 435-2. This interface has a maximum frame rate capability of 60 Hz.

SMPTE ST 2036-4, Ultra High Definition Television — Multi-link 10 Gb/s Signal/Data Interface Using 12-Bit Width Container

Defines UHDTV1 and UHDTV2 image mapping into a Multi-link 10 Gb/s Serial Signal/Data Interface with 12-bit width container. This interface has a maximum frame rate capability of 120 Hz.

This overview shows the relation between the SMPTE ST 2036 series of standards and the current SMPTE image/interface standards.

